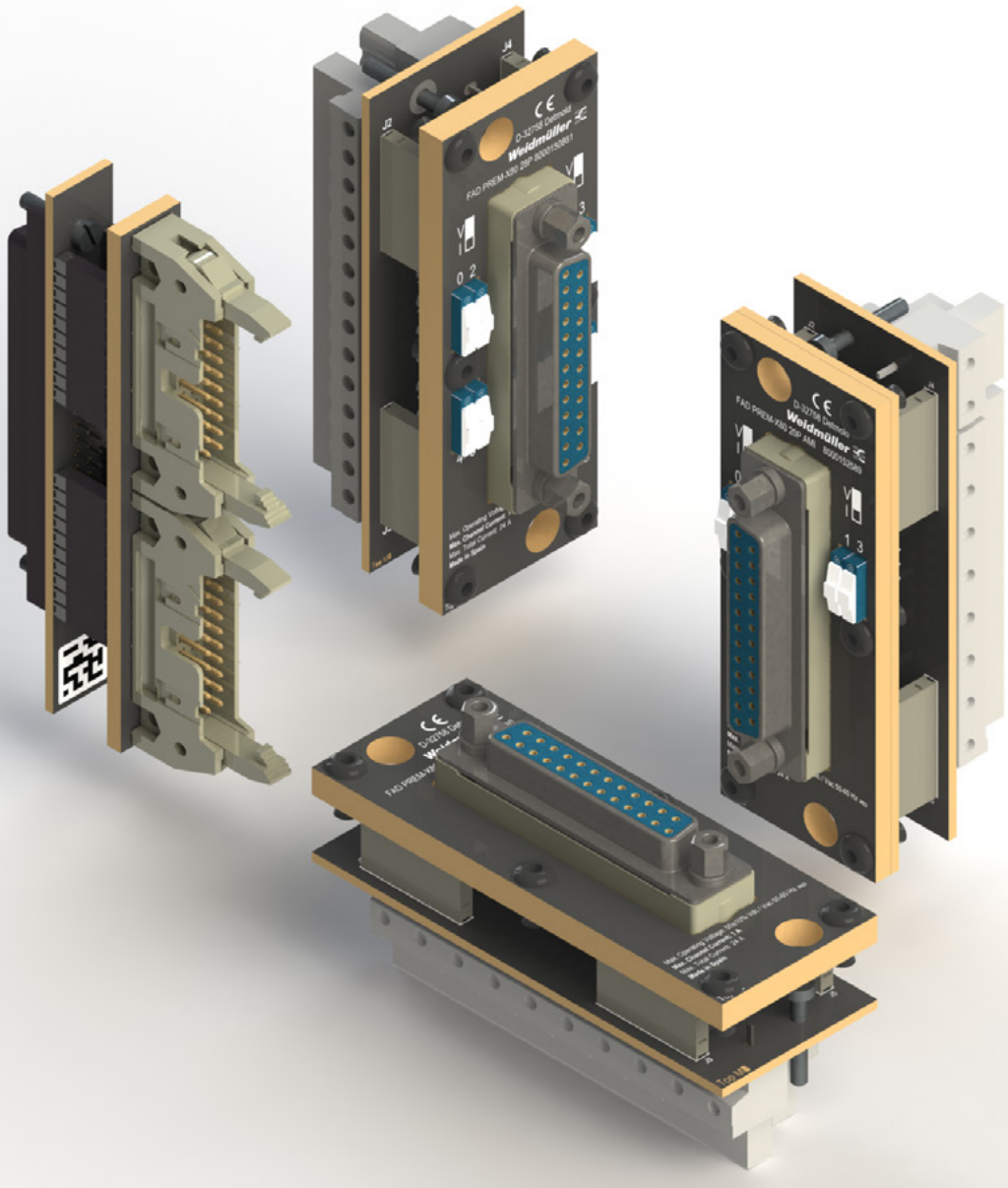
PLC System Migration

Addcon system to migrate Schneider Premium cards to Schneider X80



Weidmüller

Why migration is needed

Migration solutions avoid downtime and maintain productivity

Due to continuous technological changes, PLC/ DCS systems become obsolete and need to be replaced with new models. Many industries in process and energy, such as Pulp & Paper, Water Treatment, Oil & Gas, Power Generation and Metal Manufacturing require PLC / DCS system updates with minimum downtimes. Migration is necessary due to the aging of the old system and becomes a priority when:

- the PLC or DCS manufacturer is discontinuing technical support and spare parts service for their system.
- the PLC or DCS is unable to interconnect with new or existing third-party systems and applications.
- the PLC or DCS cannot achieve the technical requirement (speed, reliability, scalability) of the new demands of the plants.

Converting a legacy system to a modern platform allows for an opportunity to improve plant operation, eliminating obsolescence risk and accelerates progress. Rewiring from the controllers to sensors, and field devices can make replacement a lengthy and costly challenge. To save costs and increase plant availability, Addcon system can retain the existing wiring.

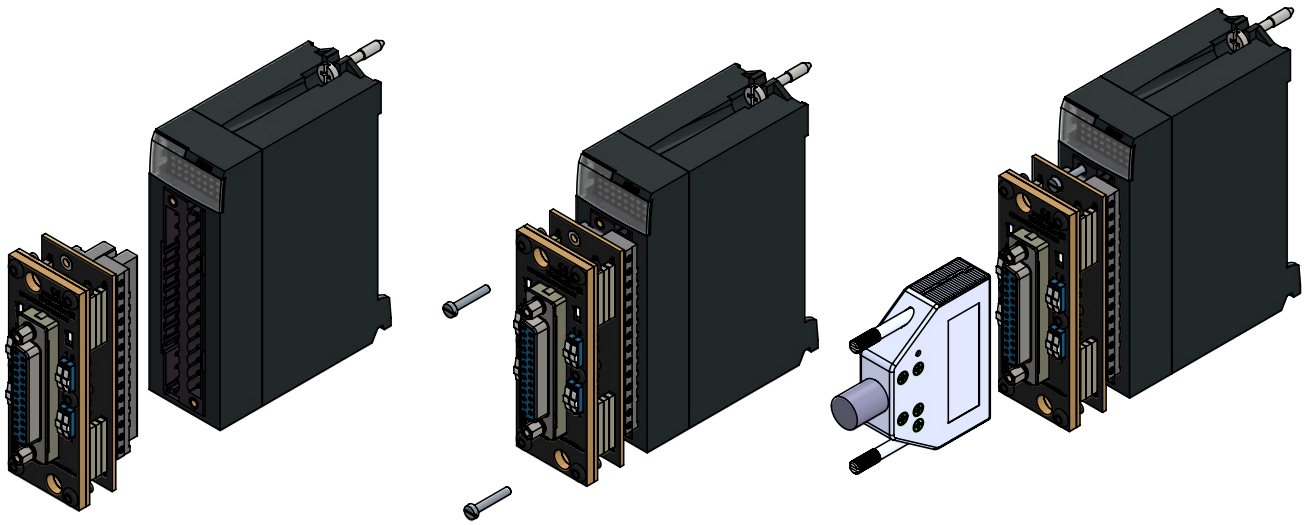
Addcon system made easy

The migration process in 3 simple steps

Step 1
Once the New PLC system is installed, plug the Addcon adapters into the I/O Cards' terminal block.

Step 2
To fix the Addcon adapters firmly, insert the fixation screws through the adapter holes and tighten them.

Step 3
Lastly, take the existing pre-assembled cable from the Old PLC system and plug it in the Addcon adapter's top connector.



Addcon system to migrate Schneider Premium cards to Schneider X80

The following selection tables help you to choose the pre-assembled cables

1. **Select the OLD PLC card from the corresponding table**
   For example: TSX AEY 420

2. **Select the NEW PLC card from the corresponding table**
   For example: BMX AMI 0410
   Important: Verify the quantity of cards required for the desired migration.

3. **Locate the Addcon adapter and the quantity required**
   For example: 8000152589A) FAD ADDCON PREM-X80-V0 20P AMI / Quantity: 1

4. Once the Addcon adapter and quantity have been chosen. Please read carefully the referenced Application notes at the bottom section of the Selection Table (if needed).

   For example: 8000152589[A)]

   Note: [A)] Switch in position "V" (Voltage mode)

	Old PLC			New PLC			Interfaces		
	Input/Output cards			Input/Output cards			Direct inputs/outputs		
	Manufacturer code	Number/Type of channels	Qty.	Manufacturer code	Number/Type of channels	Qty.	Type	Description	Qty.
DI	TSX DEY 32D2K	32 DI	1	BMX DDI 3202 K	32 DI	1	8000138698	FAD ADDCON PREM-X80-V0 FJ40	1
	TSX DEY 64D2K	64 DI	1	BMX DDI 6402 K	64 DI	1	8000138698	FAD ADDCON PREM-X80-V0 FJ40	2
DO	TSX DSY 32T2K	32 DO	1	BMX DDO 3202 K	32 DO	1	8000138698	FAD ADDCON PREM-X80-V0 FJ40	1
	TSX DSY 64T2K	64 DO	1	BMX DDO 6402 K	64 DO	1	8000138698	FAD ADDCON PREM-X80-V0 FJ40	2
AI	TSX AEY 420	4 AI, voltage applications	1	BMX AMI 0410	4 AI, voltage applications	1	8000152589[A)]	FAD ADDCON PREM-X80-V0 20P AMI	1
	TSX AEY 420	4 AI, current applications	1	BMX AMI 0410	4 AI, current applications	1	8000152589[B)]	FAD ADDCON PREM-X80-V0 20P AMI	1
	TSX AEY 800	8 AI, voltage applications	1	BMX AMI 0800	8 AI, voltage applications	1	8000150861[A)]	FAD ADDCON PREM-X80-V0 28P	1
	TSX AEY 800	8 AI, current applications	1	BMX AMI 0800	8 AI, current applications	1	8000150861[B)]	FAD ADDCON PREM-X80-V0 28P	1
	TSX AEY 810	8 AI, voltage applications	1	BMX AMI 0810	8 AI, voltage applications	1	8000150861[A)]	FAD ADDCON PREM-X80-V0 28P	1
	TSX AEY 810	8 AI, current applications	1	BMX AMI 0810	8 AI, current applications	1	8000150861[B)]	FAD ADDCON PREM-X80-V0 28P	1
	TSX AEY 1600	16 AI, voltage applications	1	BMX AMI 0800	8 AI, voltage applications	2	8000150861[A)]	FAD ADDCON PREM-X80-V0 28P	2
	TSX AEY 1600	16 AI, current applications	1	BMX AMI 0800	8 AI, current applications	2	8000150861[B)]	FAD ADDCON PREM-X80-V0 28P	2
	TSX AEY 1600	16 AI, voltage applications	1	BMX AMI 0810	8 AI, voltage applications	2	8000150861[A)]	FAD ADDCON PREM-X80-V0 28P	2
	TSX AEY 1600	16 AI, current applications	1	BMX AMI 0810	8 AI, current applications	2	8000150861[B)]	FAD ADDCON PREM-X80-V0 28P	2
AO	TSX ASY 800	8 AO, voltage applications	1	BMX AMO 0410	4 AO, voltage applications	2	8000151230	FAD ADDCON PREM-X80-V0 20P AMO	2
	TSX ASY 800	8 AO, current applications	1	BMX AMO 0410	4 AO, current applications	2	8000151230	FAD ADDCON PREM-X80-V0 20P AMO	2
	TSX ASY 800	8 AO, current applications	1	BMX AMO 0802	8 AO	1	8000161639	FAD ADDCON PREM-X80-V1 20P AMO	1
Note	[A)] Switch in position "V" (Voltage mode) [B)] Switch in position "I" (Current mode)								

- The FADs are intended to be used inside an IP20 enclosure at least.

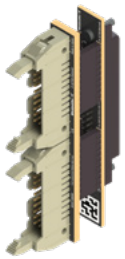
* In case that your migration does not appear in this table, you can contact us to send a request.

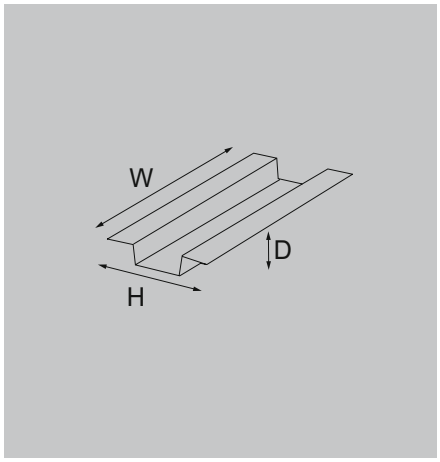
Addcon adapter for migration of Schneider Premium cards with 40P to Schneider X80

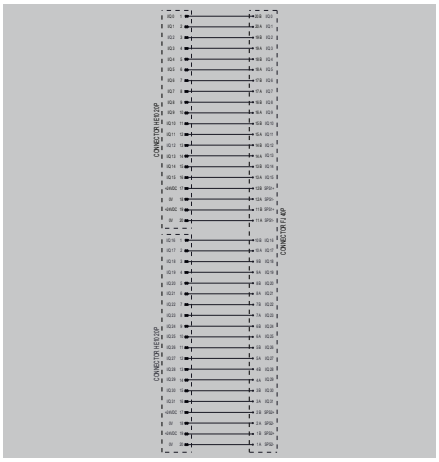
Digital cards with HE10 20P. See list of compatibility:

- TSX DEY 32D2K to BMX DDI 3202 K
- TSX DEY 64D2K to BMX DDI 6402 K
- TSX DSY 32T2K to BMX DDO 3202 K
- TSX DSY 64T2K to BMX DDO 6402 K

FAD ADDCON PREM-X80-V0 FJ40







Technical data

Rated data	
Max. operating input/output voltage	50 ± 10% V AC / V DC
Max. current per channel	0.5 A – All channels connected
Max. total current	2 A per connector / 4 A per module
Environmental conditions	
Operating ambient temperature	- 40...+70 °C
Max. operating humidity	85% non-condensing
Storage ambient temperature	- 40...+70 °C
Insulation coordination (EN 60664-1:2007)	
Rated insulation voltage	50 V AC / 70 V DC
Surge voltage category	III
Pollution severity level	2
Rated impulse voltage (1.2 / 50µs)	0.8 kV AC
General information	
Module dimensions (Height x Width x Depth)	91.5 mm x 12.24 mm x 53.05 mm
Mounting method	Direct plug-in
IPC-A-610 Class (PCBA)	Class 2 – Dedicated Service Electronic Products
IP module rating / protection degree	IP 20
Input connector	2 units of HE10 20P male gold plated
Output connector	Compatible with the X80 cards listed in the product description
Standard approvals	
Insulation coordination for equipment within low-voltage systems	EN 60664-1:2007
Restriction of the use of certain hazardous substances (RoHS)	EN 63000:2018
RoHS 2011/65/EU – CE Certification	

Note

1. This product is intended to be used in fixed installations inside an enclosure or electrical cabinet with a protection degree IP 20 minimum.
2. If the equipment is used outside the specified application or ranges, the characteristics of the product may be impaired.
3. The safety of any system incorporating the equipment is in the responsability of the assembler of the system.
4. At the end of the product service life make sure to fulfil all the relevant disposal regulations applicable for the installation location.

Ordering data

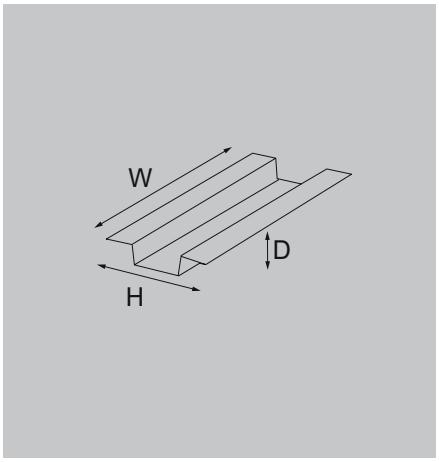
Type	Order No.
FAD ADDCON PREM-X80-V0 FJ40	**8000138698**

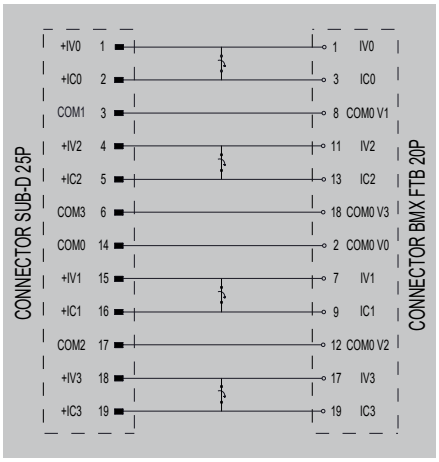
Addcon adapter for migration of Schneider Premium cards with SUB-D 25P to Schneider X80

Analog cards with 20P. See list of compatibility:

- TSX AEY 420 to BMX AMI 0410

FAD ADDCON PREM-X80-V0 20P AMI





Technical data

Rated data	
Max. operating input/output voltage	50 ± 10% V AC / V DC
Max. current per channel (swith off)	1 A – All channels connected
Max. current per channel (swith on)	0.5 A – All channels connected
Environmental conditions	
Operating ambient temperature	- 40...+70 °C
Max. operating humidity	85% non-condensing
Storage ambient temperature	- 40...+70 °C
Insulation coordination (EN 60664-1:2007)	
Rated insulation voltage	50 V AC / 70 V DC
Surge voltage category	III
Pollution severity level	2
Rated impulse voltage (1.2 / 50µs)	0.8 kV AC
General information	
Module dimensions (Height x Width x Depth)	84 mm x 31.70 mm x 46.91 mm
Mounting method	Direct plug-in
IPC-A-610 Class (PCBA)	Class 2 – Dedicated Service Electronic Products
IP module rating / protection degree	IP 20
Input connector	SUB-D 25P female gold plated
Output connector	Compatible with the X80 cards listed in the product description
Standard approvals	
Insulation coordination for equipment within low-voltage systems	EN 60664-1:2007
Restriction of the use of certain hazardous substances (RoHS)	EN 63000:2018
RoHS 2011/65/EU – CE Certification	
Note	1. This product is intended to be used in fixed installations inside an enclosure or electrical cabinet with a protection degree IP 20 minimum. 2. If the equipment is used outside the specified application or ranges, the characteristics of the product may be impaired. 3. The safety of any system incorporating the equipment is in the responsability of the assembler of the system. 4. At the end of the product service life make sure to fulfil all the relevant disposal regulations applicable for the installation location.

Ordering data

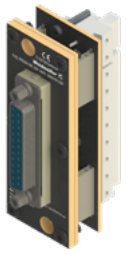
Type	Order No.
FAD ADDCON PREM-X80-V0 20P AMI	**8000152589**

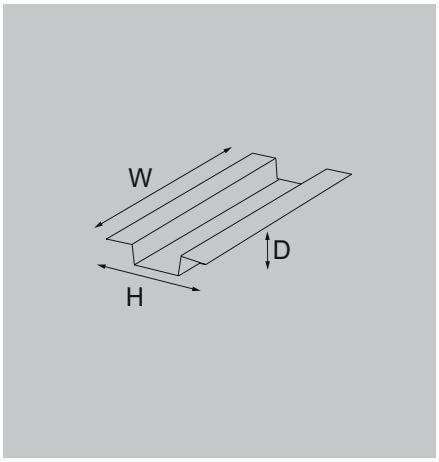
Addcon adapter for migration of Schneider Premium cards with SUB-D 25P to Schneider X80

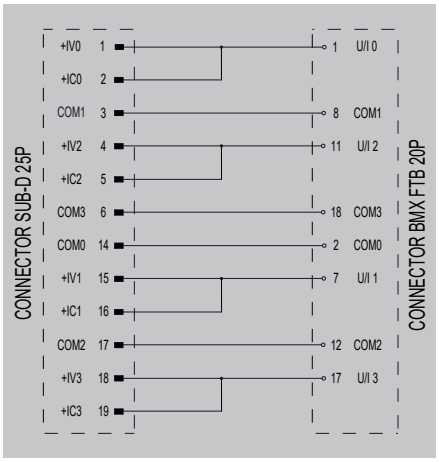
Analog cards with 20P. See list of compatibility:

- TSX ASY 800 to BMX AMO 0410

FAD ADDCON PREM-X80-V0 20P AMO







Technical data

Rated data	
Max. operating input/output voltage	50 ± 10% V AC / V DC
Max. current per channel	1 A – All channels connected
Environmental conditions	
Operating ambient temperature	- 40...+70 °C
Max. operating humidity	85% non-condensing
Storage ambient temperature	- 40...+70 °C
Insulation coordination (EN 60664-1:2007)	
Rated insulation voltage	50 V AC / 70 V DC
Surge voltage category	III
Pollution severity level	2
Rated impulse voltage (1.2 / 50µs)	0.8 kV AC
General information	
Module dimensions (Height x Width x Depth)	84 mm x 31.70 mm x 46.91 mm
Mounting method	Direct plug-in
IPC-A-610 Class (PCBA)	Class 2 – Dedicated Service Electronic Products
IP module rating / protection degree	IP 20
Input connector	SUB-D 25P female gold plated
Output connector	Compatible with the X80 cards listed in the product description
Standard approvals	
Insulation coordination for equipment within low-voltage systems	EN 60664-1:2007
Restriction of the use of certain hazardous substances (RoHS)	EN 63000:2018
RoHS 2011/65/EU – CE Certification	
Note	1. This product is intended to be used in fixed installations inside an enclosure or electrical cabinet with a protection degree IP 20 minimum. 2. If the equipment is used outside the specified application or ranges, the characteristics of the product may be impaired. 3. The safety of any system incorporating the equipment is in the responsability of the assembler of the system. 4. At the end of the product service life make sure to fulfil all the relevant disposal regulations applicable for the installation location.

Ordering data

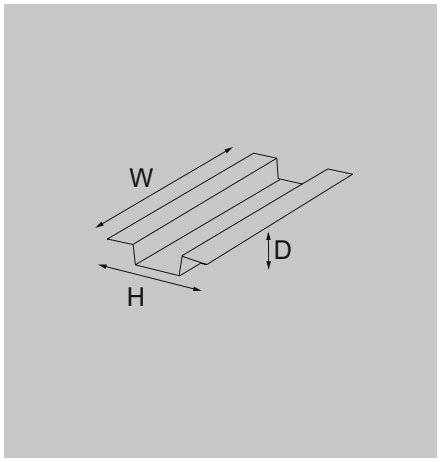
Type	Order No.
FAD ADDCON PREM-X80-V0 20P AMO	**8000151230**

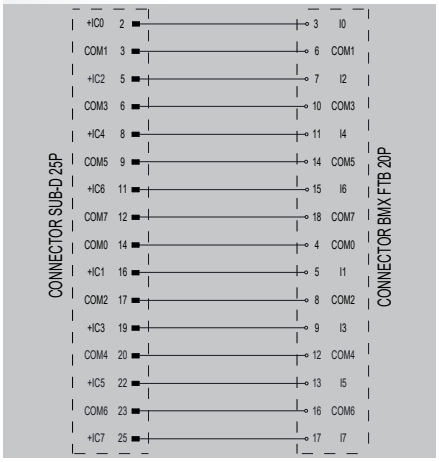
Addcon adapter for migration of Schneider Premium cards with SUB-D 25P to Schneider X80

Analog cards with 20P. See list of compatibility:

- TSX ASY 800 to BMX AMO 0802

FAD ADDCON PREM-X80-V1 20P AMO





Technical data

Rated data	
Max. operating input/output voltage	50 ± 10% V AC / V DC
Max. current per channel	1 A – All channels connected
Environmental conditions	
Operating ambient temperature	- 40...+70 °C
Max. operating humidity	85% non-condensing
Storage ambient temperature	- 40...+70 °C
Insulation coordination (EN 60664-1:2007)	
Rated insulation voltage	50 V AC / 70 V DC
Surge voltage category	III
Pollution severity level	2
Rated impulse voltage (1.2 / 50µs)	0.8 kV AC
General information	
Module dimensions (Height x Width x Depth)	84 mm x 31.70 mm x 46.91 mm
Mounting method	Direct plug-in
IPC-A-610 Class (PCBA)	Class 2 – Dedicated Service Electronic Products
IP module rating / protection degree	IP 20
Input connector	SUB-D 25P female gold plated
Output connector	Compatible with the X80 cards listed in the product description
Standard approvals	
Insulation coordination for equipment within low-voltage systems	EN 60664-1:2007
Restriction of the use of certain hazardous substances (RoHS)	EN 63000:2018
RoHS 2011/65/EU – CE Certification	
Note	1. This product is intended to be used in fixed installations inside an enclosure or electrical cabinet with a protection degree IP 20 minimum. 2. If the equipment is used outside the specified application or ranges, the characteristics of the product may be impaired. 3. The safety of any system incorporating the equipment is in the responsability of the assembler of the system. 4. At the end of the product service life make sure to fulfil all the relevant disposal regulations applicable for the installation location.

Ordering data

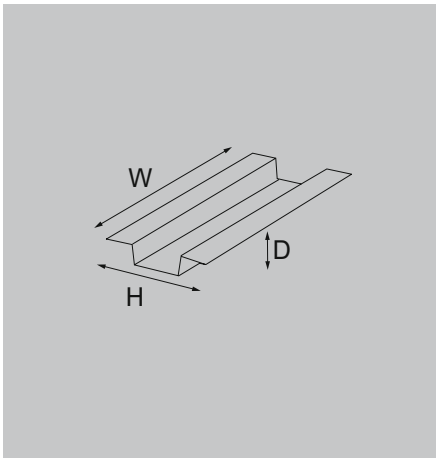
Type	Order No.
FAD ADDCON PREM-X80-V1 20P AMO	**8000161639**

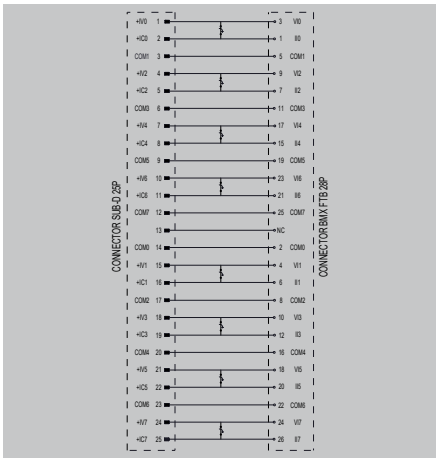
Addcon adapter for migration of Schneider Premium cards with SUB-D 25P to Schneider X80

Analog cards with 28P. See list of compatibility:

- TSX AEY 800 to BMX AMI 0800
- TSX AEY 810 to BMX AMI 0810
- TSX AEY 1600 to 2 units of BMX AMI 0800
- TSX AEY 1600 to 2 units of BMX AMI 0810

FAD ADDCON PREM-X80-V0 28P





Technical data

Rated data	
Max. operating input/output voltage	50 ± 10% V AC / V DC
Max. current per channel (swith off)	1 A – All channels connected
Max. current per channel (swith on)	0.5 A – All channels connected
Environmental conditions	
Operating ambient temperature	- 40...+70 °C
Max. operating humidity	85% non-condensing
Storage ambient temperature	- 40...+70 °C
Insulation coordination (EN 60664-1:2007)	
Rated insulation voltage	50 V AC / 70 V DC
Surge voltage category	III
Pollution severity level	2
Rated impulse voltage (1.2 / 50µs)	0.8 kV AC
General information	
Module dimensions (Height x Width x Depth)	84 mm x 31.70 mm x 46.91 mm
Mounting method	Direct plug-in
IPC-A-610 Class (PCBA)	Class 2 – Dedicated Service Electronic Products
IP module rating / protection degree	IP 20
Input connector	SUB-D 25P female gold plated
Output connector	Compatible with the X80 cards listed in the product description
Standard approvals	
Insulation coordination for equipment within low-voltage systems	EN 60664-1:2007
Restriction of the use of certain hazardous substances (RoHS)	EN 63000:2018
RoHS 2011/65/EU – CE Certification	
Note	1. This product is intended to be used in fixed installations inside an enclosure or electrical cabinet with a protection degree IP 20 minimum. 2. If the equipment is used outside the specified application or ranges, the characteristics of the product may be impaired. 3. The safety of any system incorporating the equipment is in the responsability of the assembler of the system. 4. At the end of the product service life make sure to fulfil all the relevant disposal regulations applicable for the installation location.

Ordering data

Type	Order No.
FAD ADDCON PREM-X80-V0 28P	**8000150861**

Imprint: Weidmüller Interface GmbH & Co. KG, Klingenbergstraße 26, 32756 Detmold, Tel.: +49 5231 14280, E-Mail: weidmueller@weidmueller.de, www.weidmueller.de | Limited partnership (KG), Registered office: Detmold, Register court Lemgo HRA 2790 | General partner: Weidmüller Führungsgesellschaft mbH, Registered office: Detmold, Register court Lemgo HRB 3924, VAT ID no.: DE124599660 | Corporate Executive Management: Dr. Sebastian Durst, Dr. Timo Berger, André Sombecki, Dr. Christian von Toll

Weidmüller – Your partner in Smart Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Smart Industrial Connectivity.

We cannot guarantee that there are no mistakes in the publications or software provided by us to the customer for the purpose of making orders. We try our best to quickly correct errors in our printed media.

All orders are based on our general terms of delivery, which can be reviewed on the websites of our group companies where you place your order. On demand we can also send the general terms of delivery to you.

Made in Germany

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
32758 Detmold, Germany
T +49 5231 14-0
F +49 5231 14-292083
www.weidmueller.com

Personal support can
be found on our website:
www.weidmueller.com/contact

03/2026/SMM